

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)	16.11.2004
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Applicant's or agent's file reference G204049	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/JP2004/015258	International filing date (day/month/year) 15.10.2004	Priority date (day/month/year) 17.10.2003
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International Patent Classification (IPC) or both national classification and IPC C08L9/02, C08L33/06, C08L33/20
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Applicant ZEON CORPORATION

<p>1. This opinion contains indications relating to the following items:</p> <table style="width: 100%;"> <tr> <td style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 25%;">Box No. I</td> <td>Basis of the opinion</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to Form PCT/ISA/220.</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

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PCT/JP2004/015258

Box No. I	Basis of this opinion
1.	<p>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).</p>
2.	<p>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <p>a. type of material</p> <p><input type="checkbox"/> a sequence listing</p> <p><input type="checkbox"/> table(s) related to the sequence listing</p> <p>b. format of material</p> <p><input type="checkbox"/> in written format</p> <p><input type="checkbox"/> in computer readable form</p> <p>c. time of filing/furnishing</p> <p><input type="checkbox"/> contained in the international application as filed.</p> <p><input type="checkbox"/> filed together with the international application in computer readable form.</p> <p><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</p>
3.	<p><input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p>
4.	<p>Additional comments:</p>

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability:
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

2. Citations and explanations:

Document 1: JP 2002-47379 A (Nippon Zeon Co., Ltd.), 12
February 2002

Document 2: JP 9-309975 A (Nippon Zeon Co., Ltd.), 2
December 1997

Document 3: US 4654404 A (Nippon Zeon Co., Ltd.), 31
March 1987

Claims 1-3

The inventions set forth in claims 1-3 involve an inventive step relative to documents 1-3, cited in the international search report.

Document 1-3 do not disclose a polymer alloy constituted from (A) an α,β -ethylenic unsaturated nitrile/conjugated diene copolymer rubber having a number average molecular weight of 50,000-150,000, (B) an acrylic copolymer containing α,β -ethylenic unsaturated nitrile monomer units, and (C) an α,β -ethylenic unsaturated nitrile/conjugated diene copolymer rubber having a number average molecular weight of 1000-20,000; and due to this feature these inventions in the present application offer the outstanding advantageous effect that the alloys have outstanding oil resistance and ozone resistance and outstanding resistance to solvent

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PCT/JP2004/015258

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cracking.

Claim 4

The invention set forth in claim 4 involves an inventive step relative to documents 1-3, cited in the international search report.

Document 1-3 do not disclose crosslinked material formed by crosslinking a polymer alloy constituted from (A) an α,β -ethylenic unsaturated nitrile/conjugated diene copolymer rubber having a number average molecular weight of 50,000-150,000, (B) an acrylic copolymer containing α,β -ethylenic unsaturated nitrile monomer units, and (C) an α,β -ethylenic unsaturated nitrile/-conjugated diene copolymer rubber having a number average molecular weight of 1000-20,000; and due to this feature these inventions in the present application offer the outstanding advantageous effect that the material has outstanding oil resistance and ozone resistance and outstanding resistance to solvent cracking.

Claim 5

The invention set forth in claim 5 involves an inventive step relative to documents 1-3, cited in the international search report.

Document 1-3 do not disclose industrial components constituted from crosslinked material formed by crosslinking a polymer alloy constituted from (A) an α,β -ethylenic unsaturated nitrile/conjugated diene copolymer rubber having a number average molecular weight of 50,000-150,000, (B) an acrylic copolymer containing α,β -ethylenic unsaturated nitrile monomer units, and (C)

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an α, β -ethylenic unsaturated nitrile/conjugated diene copolymer rubber having a number average molecular weight of 1000-20,000; and due to this feature these inventions in the present application offer the outstanding advantageous effect that the components have outstanding oil resistance and ozone resistance and outstanding resistance to solvent cracking.